

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

- 1           1.       (Currently amended) A method that facilitates dynamic delivery of  
2       service profiles to a client, comprising:  
3           performing a discovery operation to allow the client to discover new  
4       services on a network;  
5           if a new service is discovered for which the client does not possess a  
6       service profile for the new service, causing the client to obtain the service profile  
7       from the new service, ~~wherein the service profile specifies how to use the new~~  
8       ~~service~~; and  
9           causing the service profile to be installed on the client to enable the client  
10      to use the new service.
  
- 1           2.       (Original) The method of claim 1, wherein causing the client to  
2       obtain the service profile involves:  
3           causing the client to send a request for the service profile to the new  
4       service; and  
5           causing the client to receive the service profile from the new service.
  
- 1           3.       (Original) The method of claim 1, wherein the service profile  
2       includes code, and wherein causing the service profile to be installed on the client  
3       involves causing the code to be installed on the client.

1           4.     (Original) The method of claim 1,  
2                 wherein the service profile includes a specification that describes how to  
3     use the new service; and  
4                 wherein causing the service profile to be installed on the client involves,  
5                         causing code to be generated to implement the  
6                         specification, and  
7                         causing the code to be installed on the client.

1           5.     (Original) The method of claim 1, wherein the service profile is  
2     encoded in a universal form that can be executed by different types of clients.

1           6.     (Original) The method of claim 1,  
2                 wherein there exist different service profile implementations for different  
3     types of clients; and  
4                 wherein causing the client to obtain the service profile involves,  
5                         communicating characteristics of the client to the new  
6                         service,  
7                         allowing the new service to select a service profile  
8                         implementation for the client based on the characteristics of the  
9                         client, and  
10                         allowing the new service to send the selected service profile  
11                         implementation to the client.

1           7.     (Original) The method of claim 1, wherein causing the client to  
2     obtain the service profile from the new service involves executing a dynamic  
3     extension profile, which implements a standard protocol that enables the client to  
4     acquire any profile the client needs at the time the profile is needed.

1           8.       (Original) The method of claim 1,  
2           wherein performing the discovery operation involves using the Bluetooth  
3       Service Discovery Protocol (SDP); and  
4           wherein the client and the new service communicate using the Bluetooth  
5       networking standard.

1           9.       (Original) The method of claim 1, wherein the service profile can  
2       define a service-specific Application Programming Interface (API).

1           10.      (Original) The method of claim 1, wherein the service profile  
2       implements a domain-specific protocol stack associated with the new service.

1           11.      (Currently amended) A computer-readable storage medium storing  
2       instructions that when executed by a computer cause the computer to perform a  
3       method that facilitates dynamic delivery of service profiles to a client, the method  
4       comprising:  
5           performing a discovery operation to allow the client to discover new  
6       services on a network;  
7           if a new service is discovered for which the client does not possess a  
8       service profile for the new service, causing the client to obtain the service profile  
9       from the new service, ~~wherein the service profile specifies how to use the new~~  
10      ~~service~~; and  
11           causing the service profile to be installed on the client to enable the client  
12      to use the new service.

1           12.      (Original) The computer-readable storage medium of claim 11,  
2       wherein causing the client to obtain the service profile involves:

3 causing the client to send a request for the service profile to the new  
4 service; and  
5 causing the client to receive the service profile from the new service.

1 13. (Original) The computer-readable storage medium of claim 11,  
2 wherein the service profile includes code, and wherein causing the service profile  
3 to be installed on the client involves causing the code to be installed on the client.

1 14. (Original) The computer-readable storage medium of claim 11,  
2 wherein the service profile includes a specification that describes how to  
3 use the new service; and  
4 wherein causing the service profile to be installed on the client involves,  
5 causing code to be generated to implement the  
6 specification, and  
7 causing the code to be installed on the client.

1 15. (Original) The computer-readable storage medium of claim 11,  
2 wherein the service profile is encoded in a universal form that can be executed by  
3 different types of clients.

1 16. (Original) The computer-readable storage medium of claim 11,  
2 wherein there exist different service profile implementations for different  
3 types of clients; and  
4 wherein causing the client to obtain the service profile involves,  
5 communicating characteristics of the client to the new  
6 service,

7                   allowing the new service to select a service profile  
8                   implementation for the client based on the characteristics of the  
9                   client, and  
10                  allowing the new service to send the selected service profile  
11                  implementation to the client.

1           17.    (Original) The computer-readable storage medium of claim 11,  
2    wherein causing the client to obtain the service profile from the new service  
3    involves executing a dynamic extension profile, which implements a standard  
4    protocol that enables the client to acquire any profile the client needs at the time  
5    the profile is needed.

1           18.    (Original) The computer-readable storage medium of claim 11,  
2    wherein performing the discovery operation involves using the Bluetooth  
3    Service Discovery Protocol (SDP); and  
4    wherein the client and the new service communicate using the Bluetooth  
5    networking standard.

1           19.    (Original) The computer-readable storage medium of claim 11,  
2    wherein the service profile can define a service-specific Application Programming  
3    Interface (API).

1           20.    (Original) The computer-readable storage medium of claim 11,  
2    wherein the service profile implements a domain-specific protocol stack  
3    associated with the new service.

1           21.    (Currently amended) An apparatus that facilitates dynamic delivery  
2    of service profiles to a client, comprising:

3 a discovery mechanism configured to perform a discovery operation that  
4 allows the client to discover new services on a network;  
5 a profile transfer mechanism, wherein if a new service is discovered for  
6 which the client does not possess a service profile for the new service, the profile  
7 transfer mechanism is configured to cause the service profile to be transferred  
8 from the new service to the client, ~~wherein the service profile specifies how to use~~  
9 ~~the new service~~; and  
10 an installation mechanism configured to cause the service profile to be  
11 installed on the client to enable the client to use the new service.

1 22. (Original) The apparatus of claim 21, wherein the profile transfer  
2 mechanism is configured to:  
3 cause the client to send a request for the service profile to the new service;  
4 and to  
5 cause the client to receive the service profile from the new service.

1 23. (Original) The apparatus of claim 21, wherein the service profile  
2 includes code, and wherein the installation mechanism is configured to cause the  
3 code to be installed on the client.

1 24. (Original) The apparatus of claim 21,  
2 wherein the service profile includes a specification that describes how to  
3 use the new service; and  
4 wherein the installation mechanism is configured to,  
5 cause code to be generated to implement the specification,  
6 and to  
7 cause the code to be installed on the client.

1           25.     (Original) The apparatus of claim 21, wherein the service profile is  
2 encoded in a universal form that can be executed by different types of clients.

1           26.     (Original) The apparatus of claim 21,  
2 wherein there exist different service profile implementations for different  
3 types of clients; and  
4 wherein the profile transfer mechanism is configured to,  
5                 communicate characteristics of the client to the new  
6                 service,  
7                 allow the new service to select a service profile  
8                 implementation for the client based on the characteristics of the  
9                 client, and to  
10                allow the new service to send the selected service profile  
11                implementation to the client.

1           27.     (Original) The apparatus of claim 21, wherein the profile transfer  
2 mechanism is configured to execute a dynamic extension profile, which  
3 implements a standard protocol that enables the client to acquire any profile the  
4 client needs at the time the profile is needed.

1           28.     (Original) The apparatus of claim 21,  
2 wherein the discovery mechanism uses the Bluetooth Service Discovery  
3 Protocol (SDP); and  
4 wherein the client and the new service communicate using the Bluetooth  
5 networking standard.

1           29.     (Original) The apparatus of claim 21, wherein the service profile  
2 can define a service-specific Application Programming Interface (API).

1           30.     (Original) The apparatus of claim 21, wherein the service profile  
2 implements a domain-specific protocol stack associated with the new service.

1           31.     (Currently amended) A device configured to dynamically deliver a  
2 service profile to a client to enable the client to use a service provided by the  
3 device, comprising:  
4           the device configured to provide the service;  
5           a memory within the device containing the service profile that enables  
6 clients to use the service provided by the device, ~~wherein the service profile~~  
7 ~~specifies how to use the service provided by the device;~~ and  
8           a profile transfer mechanism configured to transfer the service profile to  
9 the client on demand.

1           32.     (Original) The device of claim 31, further comprising a discovery  
2 mechanism configured to perform a discovery operation that allows devices to  
3 discover each other.